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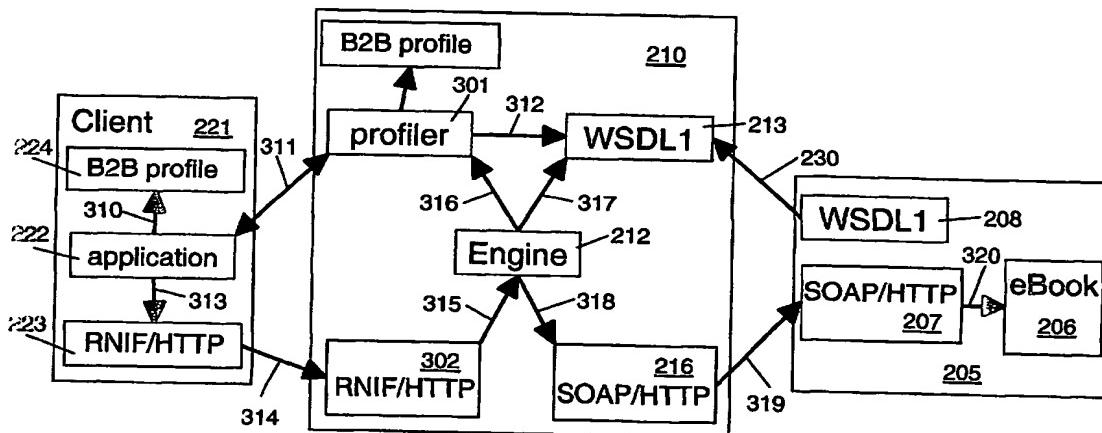
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(54) Title: ACCESS TO WEB SERVICES



(57) Abstract: The present invention provides a method, apparatus and computer program product which enable a web service gateway which provides support for business services which are described using a particular document format, for example Web Service Definition Language (WSDL), to further provide support for business services which are described using a different document format, for example in a business to business (b2b) profile such as specified by RosettaNet. The business service provides its profile to the gateway which generates a document from the profile and then uses the generated document to enable a web client, which recognises the document format but not the profile format, to access the web service via the gateway.



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IPC 7 G06F17/30 G06F17/60 H04L29/06		
<p>According to International Patent Classification (IPC) or to both national classification and IPC</p>		
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<p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p>		
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EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>VENKATAPATHY C ET AL: "An introduction to Web Services Gateway" INTERNET, 1 May 2002 (2002-05-01), XP002288276 the whole document</p> <p>CHAN A, MOBERG D, SACHS M, MALU P: "Web Services sub-team report" CPPA F2F, 'Online' 1 June 2002 (2002-06-01), pages 1-12, XP002305832 Retrieved from the Internet: URL:http://www.oasys-open.org/committees/ebxml-cppa/documents/presentations> 'retrieved on 2004-11-12! page 3 page 8 - page 10</p> <p style="text-align: center;">-/-</p>	1-9
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		<input checked="" type="checkbox"/> Patent family members are listed in annex.
<p>* Special categories of cited documents :</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> "A" document defining the general state of the art which is not considered to be of particular relevance <input checked="" type="checkbox"/> "E" earlier document but published on or after the International filing date <input checked="" type="checkbox"/> "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) <input checked="" type="checkbox"/> "O" document referring to an oral disclosure, use, exhibition or other means <input checked="" type="checkbox"/> "P" document published prior to the international filing date but later than the priority date claimed 		
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MEDJAHED B ET AL: "Business-tobusiness interactions: issues and enabling technologies" THE VLDB JOURNAL, 'Online! 3 April 2003 (2003-04-03), pages 59-85, XP002305833 Retrieved from the Internet: URL:http://delivery.acm.org/10.1145/780000/775457/30120059.pdf?key1=775457&key2=6604060011&coll=GUIDE&dl=GUIDE&CFID=31320261&CTOKEN=56256904 'retrieved on 2004-11-12! the whole document</p> <p>-----</p> <p>SUMMIT STRATEGIES: "Life at the Edge: IBM's WebSphere Business Connection Lowers B2B Process Barriers" CUSTOM CONSULTING ANALYSIS, 'Online! 1 June 2002 (2002-06-01), pages 1-14, XP002305834 Retrieved from the Internet: URL:http://www-900.ibm.com/cn/software/websphere/products/download/whitepapers/summit-busconn.pdf 'retrieved on 2004-11-12! page 7, line 4 - page 8, line 14 page 10, line 43 - page 11, line 24 figure 1</p> <p>-----</p> <p>CUTLIP R: "Business process integration with IBM CrossWorlds, Part 3: Automatically externalize Web services with WebSphere Business Connection" IBM DEVELOPER SOLUTIONS ARTICLES, 'Online! 1 January 2003 (2003-01-01), pages 1-6, XP002305835 Retrieved from the Internet: URL:http://www-106.ibm.com/developerworks/library/i-cross3/ 'retrieved on 2004-11-05! the whole document</p> <p>-----</p> <p>US 2003/061404 A1 (CHIU JOSEPH ET AL) 27 March 2003 (2003-03-27) abstract paragraph '0010! - paragraph '0011! paragraph '0014! - paragraph '0015! paragraph '0042!; figure 2</p> <p>-----</p>	1-9
A		1-9
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

'GB2004/001304

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003061404	A1 27-03-2003	CA 2404550 A1	21-03-2003
		CA 2404552 A1	21-03-2003
		CA 2404602 A1	21-03-2003
		US 2003061517 A1	27-03-2003
		US 2003061067 A1	27-03-2003